

EM375 – MECHANICAL ENGINEERING EXPERIMENTATION Fall 2003

Text: Introduction to Engineering Experimentation (Wheeler & Ganji)

Lab days are Tues/Thurs according to sections

Classes are Mo/We

THIS SCHEDULE IS HIGHLY LIKELY TO CHANGE – stay alert!

Week of	Event	Subject	Remarks
8/18	Mo Class	No class	Classes begin 8/20
	We Class	Introduction (Chapters 1 & 2)	Prepare for the fire hose!
	Lab	Mathcad 1 and 2 (Thurs only)	
8/25	Mo Class	Statistics (6.1 – 6.3.2)	
	We Class	Statistics (6.1 – 6.3.2)	
	Lab	Mathcad 1 and 2 (Tues) Mathcad 3, 4 and 5 (Thurs)	
9/1	Mo Class	No class (Labor Day)	
	We Class	Statistics (6.4 – 6.4.1)	
	Lab	Measurements & Rubbers Lab	
9/8	Mo Class	Statistics handouts	“Tests Between Two Populations & Samples”, “Pooled Variance”
	We Class	Statistics (6.5, Review)	
	Lab	Mathcad 3, 4 and 5 (Tues) Mathcad 6 and 7 (Thurs)	Also introduce the project
9/15	Mo Class	Exam #1	
	We Class	Equation Fitting (6.6.1 – 6.6.2)	
	Lab	Mathcad 6 and 7 (Tues) Project 1 (Thurs)	
9/22	Mo Class	Equation Fitting (6.6.2 – 6.6.3)	X-week Review Chapter 2
	We Class	Uncertainty (7.1 – 7.2)	
	Lab	Project 1 (Tues) Project 2 (Thurs)	Also, reduce Rubbers Lab data
9/29	Mo Class	Uncertainty (7.3 – 7.4)	9/30 (Tues) grades dues
	We Class	Uncertainty (7.5 – 7.6)	
	Lab	Project 2 (Tues) Project 3 (Thurs)	
10/6	Mo Class	Uncertainty (7.7, 7.10)	
	We Class	Uncertainty	
	Lab	Project 3 (Tues) Project 4 (Thurs)	
10/13	Mo Class	No class (Columbus Day)	
	We Class	Uncertainty	

	Lab	Project 4 (Tues) Project 5 (Thurs)	
10/20	Mo Class	Report Writing	
	We Class	Exam #2	
	Lab	Project 4 (Tues) Project Field Day (Thurs)	
10/27	Mo Class	1st Order Systems (11.1 – 11.3)	
	We Class	2nd Order Systems (11.4)	
	Lab	Project Field Day (Tues) Instructor Choice (Thurs)	
11/3	Mo Class	2nd Order Systems (11.4)	X-week
	We Class	2nd Order Systems (11.4)	
	Lab	Thermocouple	
11/10	Mo Class	No class (Veterans' Day)	11/12 (Wed) grades due
	We Class	2nd Order Systems (11.4)	
	Lab	Inclining Experiment (Thurs)	Tues no lab (Veterans Day)
11/17	Mo Class	2nd Order Systems (11.4)	
	We Class	Sampling Rate Theorem (5.1)	
	Lab	Survey Lab	
11/24	Mo Class	Review	
	We Class	Exam #3	
	Lab	Inclining Experiment (Tues)	Thanksgiving 11/27-28
12/1	Mo Class	Instructor choice / review	ARMY WEEK
	We Class	Review	Fri 12/5 last day of classes
	Lab	Strain Gages	

The homework assignments are shown on a separate handout EM375 – GRADING AND DUE DATES Fall 2003". Unless your instructor indicates otherwise, work is to be submitted by the dates shown.